**Trimix Analyser**

**Technical Specifications**

**Sensors**

Oxygen: Molex type oxygen cell

Helium: MD62 thermal conductivity sensor

Carbon Monoxide: ME2-CO cell

**Range and Resolution**

Oxygen: 0-100% (± 0.02%)

Helium: 2-100% (± 0.01%)

Carbon Monoxide: 0-500 ppm (± 0.3 ppm)

Interference of helium sensor: hydrogen, argon, carbon dioxide

**Operating Instructions**

**Operation**

* Press red button to switch on analyser. Calibration values will appear on display.
* Press white button to switch display: MOD (ppO2 1.4/1.6), END (at MOD ppO2 1.4), Density (at MOD ppO2 1.4), CO (warning will show when CO exceeds 5 ppm).

**Calibration**

* 21% O2 calibration: Connect with air. Press green button once.
* 100% O2 calibration: Connect with pure oxygen. Press green button 3 times within 3 seconds.

Analyser will run on one-point calibration before 100% O2 calibration is set, and two-point calibration after 100% O2 calibration is set.

* 0% He calibration: Connect with air. Press green button 5 times within 5 seconds. Only required if helium sensor voltage in air deviates ± 10mV from 0.
* 100% He calibration: Connect with pure helium. Press green button and hold for 3 seconds (a prompt with appear on display) then release.
* Reset calibrations: Press green button and hold for 10 seconds (a prompt with appear on display) then release to reset all calibration values to default.

Default calibration: 21% O2 (10mV), 100% O2 (Null), 0% He (0mV), 100% He (582mV)

**Change battery**

Battery low warning will show when battery drops below 7.0V. Loosen the 4 screws to lift front cover, be careful to not disconnect any wires between front cover and main body. Replace battery with a 9V alkaline battery.

**Change oxygen cell**

Loosen the 4 screws to lift front cover, be careful to not disconnect any wires between front cover and main body. Disconnect Molex connector from the old oxygen cell, remove old cell. Remove O ring from the new oxygen cell, wrap the thread with 3 turns of PTFE tape, screw in new cell. Connect Molex connector, silver side towards the flat side of the cell.